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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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VAN PELT				BAUM, RONALD	
10050 N. FOOTHILL BLVD #200 CUPERTINO, CA 95014				ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/841,700	SORKIN ET AL.
Office Action Summary	Examiner	Art Unit
	Ronald Baum	2135
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thin beriod will apply and will expire SIX (6) MON statute, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on		
2a) ☐ This action is FINAL . 2b) ⊠	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice un-		
Disposition of Claims		
4) ☐ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the c	accepted or b) objected to the drawing(s) be held in abeyar orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docure. 2. Certified copies of the priority docure. 3. Copies of the certified copies of the application from the International Break * See the attached detailed Office action for a since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language. 14) Acknowledgment is made of a claim for dorn reference was included in the first sentence.	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)). a list of the certified copies not mestic priority under 35 U.S.C. ne first sentence of the specific e provisional application has b mestic priority under 35 U.S.C.	pplication No received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94-3) Information Disclosure Statement(s) (PTO-1449) Paper N 	8) 5) Notice of h	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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DETAILED ACTION

1. Claims 1-38 are pending for examination.

2. Claims 1-38 are rejected.

Specification

The disclosure is objected to because of the following informalities: The attempt to incorporate subject matter into this application by reference to US patent applications only by a title (i.e., page 1, lines 18-21, "SYSTEM AND METHOD FOR ANALYZING LOGFILES", is improper because reference to said documents is incomplete without more specific identification (i.e., actual US patent applications numbers).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-38 are rejected under 35 U.S.C. 102(a) as being anticipated by NETWORK ASSOCIATES, "Network Associates Ships Cybercop Sting", Network Associates Incorporated, 16 July 1999, ("NAI") http://www.serverwatch.com/news/print.php/1399041, entire article, paper 5, item Q, and, STAGGS, MICHAEL "IDS:RE: cybercop sting", University of Wollongong, Austrailia ("Staggs") via Web site

http://www.shmoo.com/mail/ids/oct99/msg00467.html, 8 October 1999, entire article, paper 5,

item J, (See MPEP 2131.01, paragraph III for multiple reference rejection criteria, where Staggs is inherent in NAI).

4. As per claim 1; "A method for providing security for a computer network [NAI, paragraph 1, Staggs, paragraph 1], comprising: generating content sets for a computer associated with the network [NAI, paragraph 2, Staggs, paragraph 1, paragraph 7, "...disinformation files..."]; determining whether a user should be routed to the generated content sets [NAI, paragraph 2, Staggs, paragraph 1, "...emulates...", paragraph 2, "...routes packets..."]; selecting one of the content sets if it is determined that the user should be routed to the generated content sets; and routing the user to the selected generated content set [NAI, paragraph 2, Staggs, paragraph 1, "...emulates...", paragraph 2, "...routes packets..."].".

And further as per claim 35; "A system [This claim is the system of the method claim 1, and is rejected for the same reasons provided for the claim 1 rejection above] for providing security for a computer network, comprising: a computer configured to generate content sets for the computer, wherein the computer is associated with the network; a plurality of network interfaces each associated with one of the content sets; and a network device configured to determine whether a user should be routed to the generated content sets, select one of the generated content sets if it is determined that the user should be routed to the generated content, and to route the user to the selected generated content set.".

Claim 36 *additionally recites* the limitations that; "The system as recited in claim 35, wherein the network device is a firewall.". The teachings of NAI (paragraph 3, "...the firewall...") and Staggs (paragraph 1, 3) suggest such limitations.

And further as per claim 37; "A computer program product [This claim is the embodied software on computer readable media of the method claim 1, and is rejected for the same reasons provided for the claim 1 rejection above] for providing security for a computer network comprising a computer usable medium having machine readable code embodied therein for generating content sets for a computer associated with the network; determining whether a user should be routed to the generated content sets; selecting one of the generated content sets if it is determined that the user should be routed to the generated content sets; and routing the user to the selected generated content set."

- 5. Claim 2 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising monitoring the activities of the user with respect to the computer.". The teachings of NAI (paragraph 2, "While watching...", paragraph 4, 2nd bullet "Ability to record...", paragraph 5, "...real-time intrusion monitoring...") and Staggs (paragraph 6, "...real time alarmed and logged...") suggest such limitations.
- 6. Claim 3 *additionally recites* the limitations that; "The method as recited in claim 2, further comprising preventing the user from accessing files associated with said monitoring.".

 The teachings of NAI (paragraph 1, "...to silently monitor...", paragraph 2, "...avoid suspicion by would-be intruders...", paragraph 3, "...a safe way to observe...") and Staggs (paragraph 6) suggest such limitations.
- 7. Claim 4 *additionally recites* the limitations that; "The method as recited in claim 2, further comprising preventing the user from accessing processes associated with said monitoring.". The teachings of NAI (paragraph 1, "...to silently monitor...", paragraph 2,

"...avoid suspicion by would-be intruders...", paragraph 3, "...a safe way to observe...") and Staggs (paragraph 6) suggest such limitations.

- 8. Claim 5 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising associating each generated content set with a virtual computer.". The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 3rd bullet "Virtual decoy...") suggest such limitations.
- 9. Claim 6 *additionally recites* the limitations that; "The method as recited in claim 5, wherein selecting one of the content sets includes choosing a content set associated with a virtual computer requested to be accessed by the user.". The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 3rd bullet "Virtual decoy...") and Staggs (paragraph 7, "...corporate competition...") suggest such limitations.
- 10. Claim 7 *additionally recites* the limitations that; "The method as recited in claim 5, further comprising associating each generated content set with its own network interface.". The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 3rd bullet "Virtual decoy...") and Staggs (paragraph 2, "...these virtual hosts...") suggest such limitations.
- 11. Claim 8 *additionally recites* the limitations that; "The method as recited in claim 7, further comprising concealing from the user network interfaces not associated with the selected generated content set.". The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 1st bullet "Detection of suspicious activity...", 3rd bullet "Virtual decoy...") and Staggs (paragraph 2, "...these virtual hosts...") suggest such limitations.
- 12. Claim 9 *additionally recites* the limitations that; "The method as recited in claim 5, further comprising concealing from the user network connections not associated with the

selected generated content set.". The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 3rd bullet "Virtual decoy...") and Staggs (paragraph 2, "...these virtual hosts...") suggest such limitations.

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- 13. Claim 10 *additionally recites* the limitations that; "The method as recited in claim 9, wherein concealing network connections includes receiving a request from the user to access a network connection, checking whether that network connection is associated with the selected generated content set, and if it is not associated with the selected generated content set, providing an indication that the network connection does not exist." The teachings of NAI (paragraph 2, "...device has a real IP address...", paragraph 4, 3rd bullet "Virtual decoy...", 4th bullet "... returns realistic packet information.", 5th bullet "... information about potential attackers...") and Staggs (paragraph 2, "...these virtual hosts...", paragraph 3, "Attacker pings10.10.10.1..." such that ping response/ non response constitutes a network connection existing / not existing.) suggest such limitations.
- 14. Claim 11 *additionally recites* the limitations that; "The method as recited in claim 9, wherein concealing network connections includes receiving a request from the user to access a network connection, checking whether that network connection is associated with the selected generated content set, and if it is not associated with the selected generated content set, transforming the request into a request to access a network connection associated with the selected generated content set." The teachings of NAI (paragraph 2, "...performs IP fragmentation reassembly...", paragraph 4, 4th bullet "... returns realistic packet information.", 5th bullet "... information about potential attackers...before they leave..") and Staggs (paragraph

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2, "...these virtual hosts...", paragraph 3, "Attacker pings10.10.10.1..." such that ping response/ non response constitutes a network connection existing / not existing.) suggest such limitations.

- 15. Claim 12 *additionally recites* the limitations that; "The method as recited in claim 5, wherein the computer is running on a Unix operating system.". The teachings of NAI (paragraph 2, "...UNIX servers and routers...") suggest such limitations.
- 16. Claim 13 *additionally recites* the limitations that; "The method as recited in claim 12, wherein the computer is running on a Solaris operating system.". The teachings of NAI (paragraph 2, "...UNIX servers and routers...") and Staggs (paragraph 1, "...Solaris 2.6 machines...", paragraph 2, "...Solaris boxes...") suggest such limitations.
- 17. Claim 14 *additionally recites* the limitations that; "The method as recited in claim 1, wherein selecting one of the content sets includes choosing a content set associated with a service requested to be accessed by the user.". The teachings of NAI (paragraph 2, "...as finger and FTP...") and Staggs (paragraph 3, "...a Telnet prompt...") suggest such limitations.
- 18. Claim 15 *additionally recites* the limitations that; "The method as recited in claim 14, wherein the service is telnet.". The teachings of NAI (paragraph 2, "...as finger and FTP...") and Staggs (paragraph 3, "...a Telnet prompt...") suggest such limitations.
- 19. Claim 16 *additionally recites* the limitations that; "The method as recited in claim 1, wherein selecting one of the content sets includes choosing a content set not currently in use by another user.". The teachings of Staggs (paragraph 3, "...a Telnet prompt...") suggest such limitations.
- 20. Claim 17 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising storing the packets sent by the user.". The teachings of NAI (paragraph 2,

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"...packets destined to these hosts..." paragraph 4, 4th bullet "...log files serve...", 5th bullet "...record suspicious activity...") and Staggs (paragraph 6, "...real time alarmed and logged...") suggest such limitations.

- Claim 18 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising logging information concerning the files to which the user requests access.".

 The teachings of NAI (paragraph 2, "...packets destined to these hosts..." paragraph 4, 4th bullet "...log files serve...", 5th bullet "...record suspicious activity...") and Staggs (paragraph 4, "...a password file? Lets grab...") suggest such limitations.
- 22. Claim 19 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising preventing the user from accessing content within the computer other than the selected generated content set.". The teachings of NAI (paragraph 4, 2nd bullet "...sacrificing any real systems...") suggest such limitations.
- 23. Claim 20 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising screening a request by the user to access a file to determine if access is permitted.". The teachings of NAI (paragraph 4, 1st bullet "...potential attackers prying into...", 5th bullet "...information about potential attackers...") and Staggs (paragraph 6, "...real time alarm and logged...") suggest such limitations.
- Claim 21 *additionally recites* the limitations that; "The method as recited in claim 20, further comprising permitting access to a requested file if it is determined that access to the requested file is permitted.". The teachings of NAI (paragraph 4, 1st bullet "...potential attackers prying into...", 5th bullet "...information about potential attackers...") and Staggs (paragraph 6, "...real time alarm and logged...") suggest such limitations.

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25. Claim 22 *additionally recites* the limitations that; "The method as recited in claim 20, further comprising providing an indication that a requested file does not exist if it is determined that access is not permitted.". The teachings of NAI (paragraph 4, 1st bullet "...to alert administrators...") suggest such limitations.

- 26. Claim 23 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising generating additional content subsequent to the step of generating content sets.". The teachings of Staggs (paragraph 3, "a few banners don't hurt...") suggest such limitations.
- 27. Claim 24 *additionally recites* the limitations that; "The method as recited in claim 23, further comprising adding the additional content to the selected generated content set.". The teachings of Staggs (paragraph 3, "a few banners don't hurt...") suggest such limitations.
- 28. Claim 25 *additionally recites* the limitations that; "The method as recited in claim 1, wherein routing the user includes using network address translation to route to the selected generated content set any user who requests to access an unauthorized service.". The teachings of Staggs (paragraph 4,5) suggest such limitations.
- 29. Claim 26 *additionally recites* the limitations that; "The method as recited in claim 25, wherein the unauthorized service is telnet. The teachings of NAI (paragraph 2, "...as finger and FTP...") and Staggs (paragraph 3, "...a Telnet prompt...") suggest such limitations.
- 30. Claim 27 *additionally recites* the limitations that; "The method as recited in claim 1, further comprising receiving an indication that the user is no longer connected to the computer.".

 The teachings of NAI (paragraph 4, 5th bullet "...before they leave.", paragraph 5 "...decoy trace-and-*track*...") suggest such limitations.

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31. Claim 28 *additionally recites* the limitations that; "The method as recited in claim 27, further comprising determining whether to retain changes in the files of the computer that resulted from the user's activities.". The teachings of NAI (paragraph 2 "...emulate activity of a genuine system...", paragraph 4, 4th bullet "...return realistic packet...") suggest such limitations.

- 32. Claim 29 *additionally recites* the limitations that; "The method as recited in claim 28, further comprising resetting the computer to restore the computer and the selected generated content set to the condition they were in prior to the user being routed to the selected generated content set if it is determined the changes should not be retained.". The teachings of NAI (paragraph 2 "...emulate activity of a genuine system...", paragraph 4, 4th bullet "...return realistic packet...") suggest such limitations.
- 33. Claim 30 *additionally recites* the limitations that; "The method as recited in claim 29, further comprising updating the selected generated content set by generating additional content that appears to have been created during a time period during which the user was connected to the computer.". The teachings of NAI (paragraph 2 "...emulate activity of a genuine system...", paragraph 4, 4th bullet "...return realistic packet...") suggest such limitations.
- As per claim 31; "A method for providing security for a computer network [NAI, paragraph 1, Staggs, paragraph 1], comprising: generating content sets for a file system for a first computer associated with the network [NAI, paragraph 2, Staggs, paragraph 1, paragraph 7, "...disinformation files..."]; creating a plurality of directories within the first computer; copying the file system of the first computer into each of the directories [NAI, paragraph 2, Staggs, paragraph 1, paragraph 7, "...disinformation files..."]; and routing a user who attempts to gain

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unauthorized access to a second computer associated with the network to a first of the directories in the first computer [NAI, paragraph 2, Staggs, paragraph 1, "...emulates...", paragraph 2, "...routes packets..."].".

- 35. Claim 32 *additionally recites* the limitations that; "The method as recited in claim 31, further comprising routing a user who attempts to gain unauthorized access to a third computer associated with the network to a second of the directories in the first computer.". The teachings of NAI (paragraph 2) and Staggs (paragraph 2) suggest such limitations.
- 36. Claim 33 *additionally recites* the limitations that; "The method as recited in claim 31, further comprising associating at least one of the directories with a virtual computer.". The teachings of NAI (paragraph 2) and Staggs (paragraph 2) suggest such limitations.
- 37. Claim 34 *additionally recites* the limitations that; "The method as recited in claim 33, further comprising associating each virtual computer with a network interface.". The teachings of NAI (NAI, paragraph 1, 2) and Staggs (paragraph 1, paragraph 7, "...disinformation files...") suggest such limitations.
- 38. As per claim 38; "A computer program product for providing multiple virtual computers on a computer [NAI, paragraph 2, Staggs, paragraph 1, paragraph 7, "...disinformation files..."] using a Solaris operating system [NAI (paragraph 2, "...UNIX servers and routers...") and Staggs (paragraph 1, "...Solaris 2.6 machines...", paragraph 2, "...Solaris boxes...")], comprising a computer usable medium having machine readable code embodied therein for generating content sets for the computer, each generated content set corresponding to a virtual computer; allowing a user to access one of the generated content sets [NAI, paragraph 2, Staggs, paragraph 1, "...emulates...", paragraph 2, "...routes packets..."].".

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Conclusion

39. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (703) 305-4276. The examiner can normally be reached Monday through Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu, can be reached at (703) 305-4393. The Fax number for the organization where this application is assigned is 703-872-9306.

Ronald Baum

Patent Examiner

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